Claims:

1. An apparatus for operating a food product molding machine of the type having a feed ram device receiving food product from a supply and transferring food product into a mold cavity of a mold plate in a fill position, which mold plate is cycled in a linear reciprocal path defined by a return stroke to the fill position and an opposite discharge stroke to a discharge position, a product discharge device operable while the mold plate is held for a discharge dwell time in the discharge position to remove the product from the mold cavity, and a plate shuttle supporting the mold plate for movement therewith along the linear mold path, the apparatus comprising:

- (1) means for driving the plate shuttle to continuously cycle the mold plate in its reciprocal path;
- (2) means responsive to a fill-on control signal for commencing forward movement of one of the rams and the feed of a moldable food product to the mold plate cavity;
- (3) means responsive to a fill-off control signal for terminating forward movement of said one ram and the feed of the food product to the mold cavity; and,
- (4) means responsive to a discharge position signal for holding the mold plate for a selectively variable discharge dwell time.
- 2. The apparatus as set forth in claim 1 wherein said fill-on signal is generated during the return stroke.
- 3. The apparatus as set forth in claim 1 wherein said fill-off signal is generated during the discharge stroke.
- 4. The apparatus as set forth in claim 1 including means responsive to a fill position signal for holding the mold plate in the fill position for a selectively variable fill dwell time.
- 5. The apparatus as set forth in claim 1 wherein said feed ram device comprises a pair of alternately operable feed rams, and including:

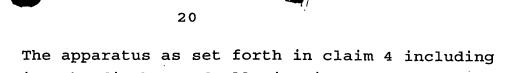
delay means for holding response to said end of feed stroke signal until generation of the next fill-off signal.

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6. The apparatus as set forth in claim 4 including means for adjusting the discharge dwell time in response to a change in fill dwell time to maintain a constant mold plate cycle time.